

## Instructions for using Dietary Supplements Questionnaire (DSQ\_B) Component NHANES 2001-2002 Data Release (July 2005)

This document contains general instructions for downloading, extracting and formatting the NHANES 2001-2002 Dietary Supplements Questionnaire (DSQ\_B) Component files. DSQ\_B data is contained in five linked SAS files (DSQ1\_B, DSQ2\_B, DSQ3\_B, DSQ4\_B, DSQ5\_B). A format code file (DSQFMT\_B) is also included, which provides text descriptions for the format codes used in these files for several variables.

### About the DSQ\_B Format File

Dietary Supplement Questionnaire data for 2000-2001 contains a number of lengthy text fields including supplement names, ingredient names, blend component names and others. Many names are hundreds of characters in length and in many cases these text fields are repeated across multiple records. For example, a single dietary supplement having 20 ingredients will have 20 records in DSQ4\_B (Ingredient File), and on each of these records that supplement's name must be repeated. Therefore, in order to reduce the size of these files certain text fields have been format coded, i.e., each text string has been replaced by a shorter coded value. The coded values are mapped to the full text strings in a SAS format library, which is provided with the datafiles. The source of the text descriptions used in this file is the NHANES Dietary Supplement Database. Please refer to the documentation for more detailed information about this database.

There are four variables included in the DSQFMT\_B file:

- 1) FMTNAME: a text field encoding the name of the key variable (e.g., DSDSUPF) used to link with the format code in the DSQ Files;
- 2) START: the character or numeric value of the format code;
- 3) LABEL: the text description for the corresponding format code.
- 4) TYPE indicates character or numeric format type.

### Downloading, Extracting and Formatting 2001-2002 DSQ\_B Datasets

NHANES data in this release are in SAS transport file format, and in the DSQ\_B datafiles, several data fields contain format-coded values. To use the DSQ\_B data files, these steps must be performed:

1. Use FTP to download the self-extracting file from the NHANES website to local directory C:

\NHANES.

2. Open the self-extracting file and extract the SAS transport file DSQ\_B.XPT to this same directory (C:\NHANES).

3. To access this data in any version of SAS, use the XPORT engine. It is recommended that you copy the transport files to a permanent SAS library. For example, assuming you have extracted the SAS transport file DSQ\_B.XPT to the folder C:\NHANES, use the following SAS code to copy the DSQ\_B datafiles to a SAS library DSQ\_B (C:\NHANES\DSQ\_B):

```
LIBNAME DSQ_BXP XPORT      "C:\NHANES\DSQ_B.XPT";
LIBNAME DSQ_B "C:\NHANES\DSQ_B";
PROC COPY IN= DSQ_BXP OUT= DSQ_B ;
RUN;
```

4. SAS program code is provided below which will associate text strings with formatted values for all format coded variables in these datasets. Assuming all DSQ\_B datasets (DSQ1\_B, DSQ2\_B, DSQ3\_B, DSQ4\_B, DSQ5\_B) and the format file (DSQFMT\_B) are located in the SAS library DSQ\_B:

```
LIBNAME DSQ_B "C:\NHANES\DSQ_B";
PROC FORMAT CNTLIN=DSQ_B.DSQFMT_B ;
PROC DATASETS LIB=DSQ_B;
    MODIFY DSQ1_B;
        FORMAT DSD010 DSD010F. ;
        FORMAT DSDCOUNT DSDCNTF. ;
    MODIFY DSQ2_B;
        FORMAT DSDSUPP $DSDSUPF. ;
        FORMAT DSD070 DSD070F. ;
        FORMAT DSDMTCH DSDMTCHF. ;
        FORMAT DSD122U DSD122UF. ;
        FORMAT DSDANTA DSDANTAF. ;
    MODIFY DSQ3_B;
        FORMAT DSDSUPP $DSDSUPF. ;
        FORMAT DSDSRCE DSDSRCEF. ;
        FORMAT DSDTYPE DSDTYPEF. ;
        FORMAT DSDSERVU DSDSRVF. ;
    MODIFY DSQ4_B;
        FORMAT DSDSUPP $DSDSUPF. ;
        FORMAT DSDINGR $DSDINGF. ;
        FORMAT DSDUNIT DSDUNTF. ;
        FORMAT DSDCAT DSDCATF. ;
```

```
        FORMAT DSDBLFLG DSDBLF. ;  
MODIFY DSQ5_B;  
        FORMAT DSDINGR $DSDINGF. ;  
        FORMAT DSDBCCAT DSDCATF. ;  
        FORMAT DSDBCNAM $BCNAMF. ;  
QUIT;
```

The use of multiple format statements allows the user to "unselect" any variable from the format process by commenting out its format statement. When a format statement is commented out with an asterisk:

```
*        FORMAT DSDBLFLG $DSDBLF. ;
```

the variable it contains will display format codes instead of text strings. In the above example the variable DSDBLFLG will show values of only "1" and "2" instead of the text strings "Ingredient is a blend" and "Ingredient is not a blend". Format codes or full text strings can be shown in any combination by commenting/uncommenting and re-running the PROC DATASETS at any time.

To simply obtain a listing of formatted text labels for each formatted variable, data users can use the following SAS code:

```
OPTIONS LS=240;  
LIBNAME DSQ_B "C:\NHANES\DSQ_B ";  
PROC PRINT DATA=DSQ_B.DSQFMT_B;  
RUN;
```